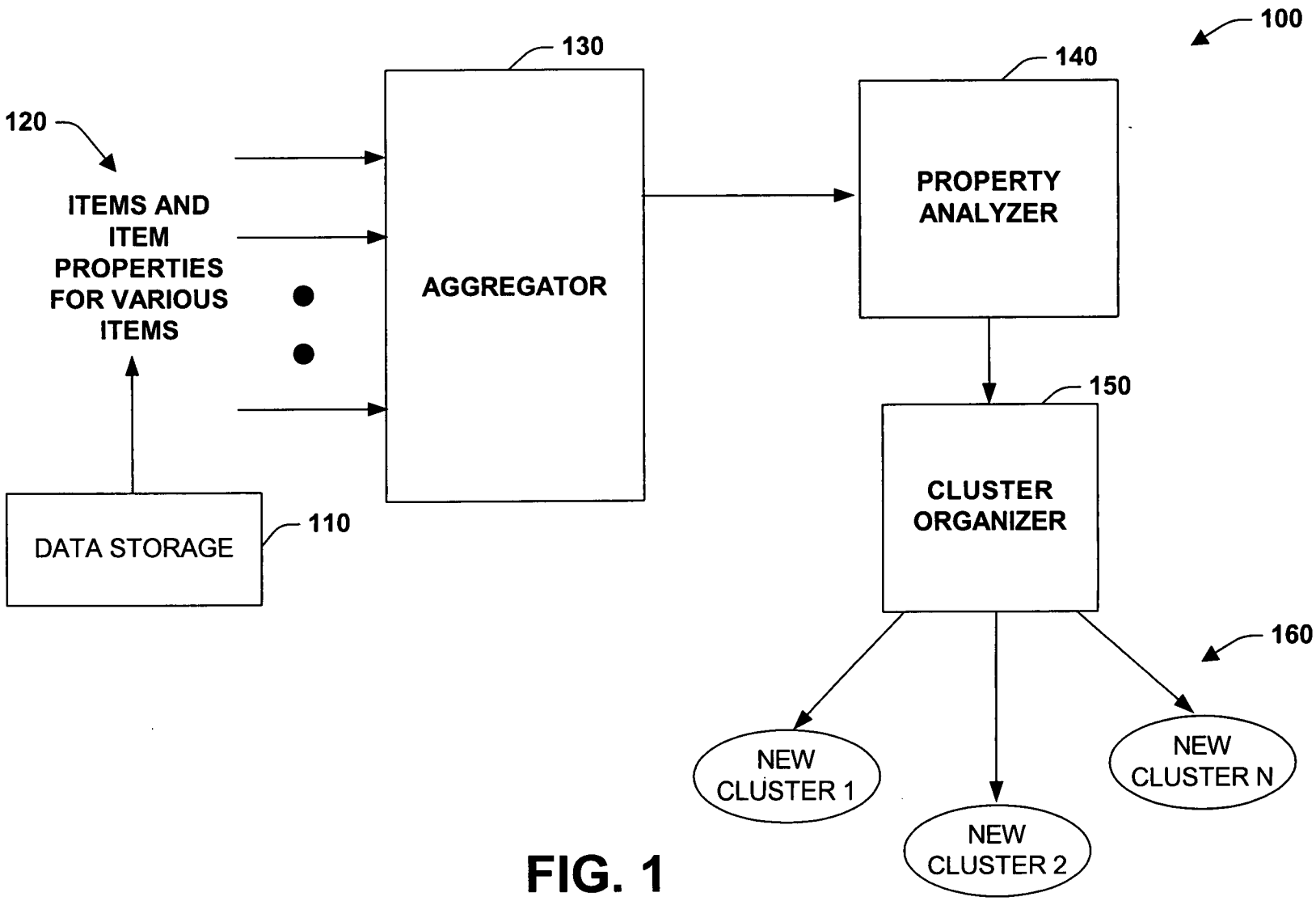
100
130
140
120
ITEMS AND ITEM PROPERTIES FOR VARIOUS ITEMS
AGGREGATOR
PROPERTY ANALYZER
150
CLUSTER ORGANIZER
DATA STORAGE
110
160
NEW CLUSTER 1
NEW CLUSTER 2
NEW CLUSTER N

FIG. 1

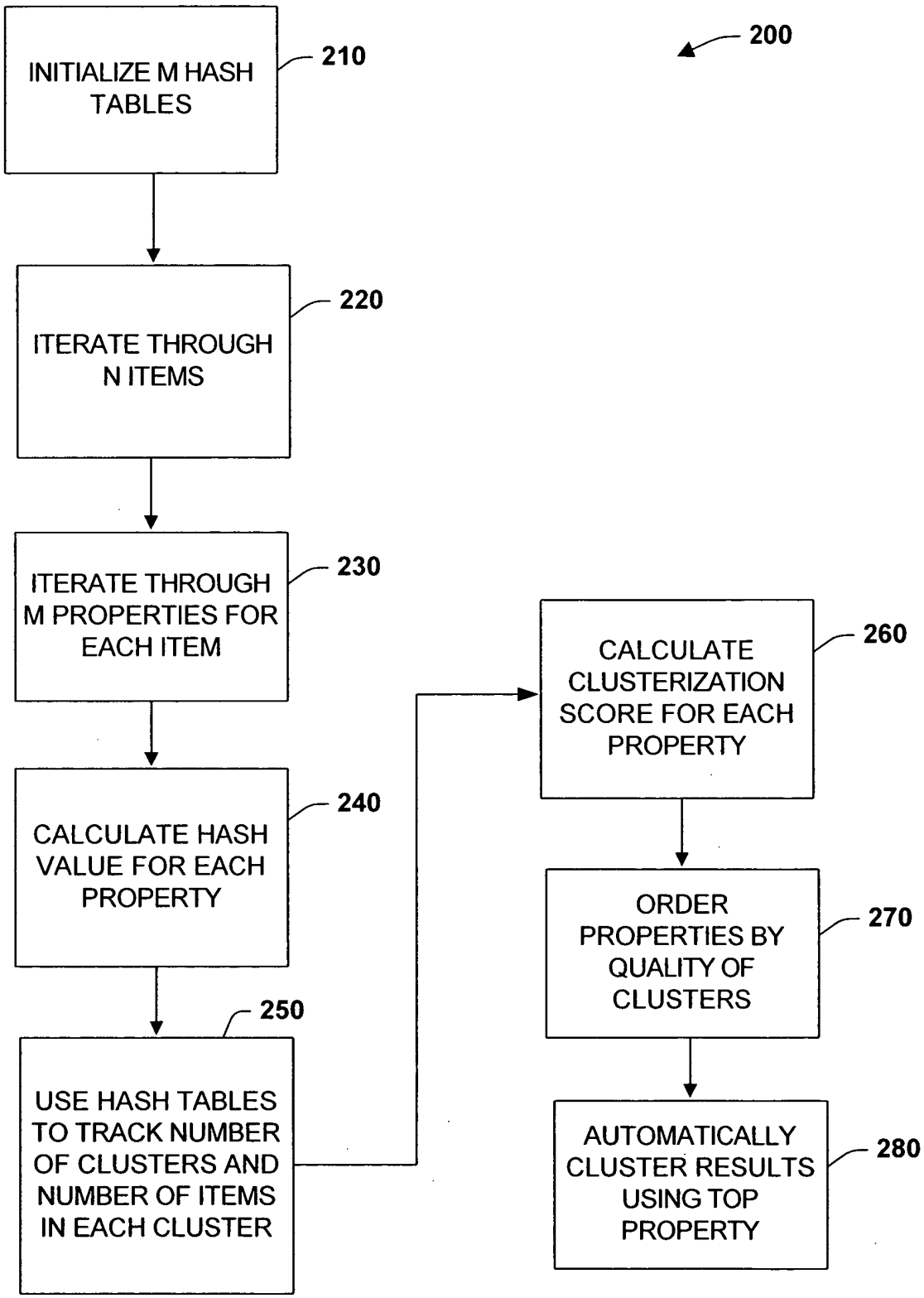
200
INITIALIZE M HASH TABLES
210
ITERATE THROUGH N ITEMS
220
ITERATE THROUGH M PROPERTIES FOR EACH ITEM
230
CALCULATE HASH VALUE FOR EACH PROPERTY
240
USE HASH TABLES TO TRACK NUMBER OF CLUSTERS AND NUMBER OF ITEMS IN EACH CLUSTER
250
CALCULATE CLUSTERIZATION SCORE FOR EACH PROPERTY
260
ORDER PROPERTIES BY QUALITY OF CLUSTERS
270
AUTOMATICALLY CLUSTER RESULTS USING TOP PROPERTY
280

FIG. 2

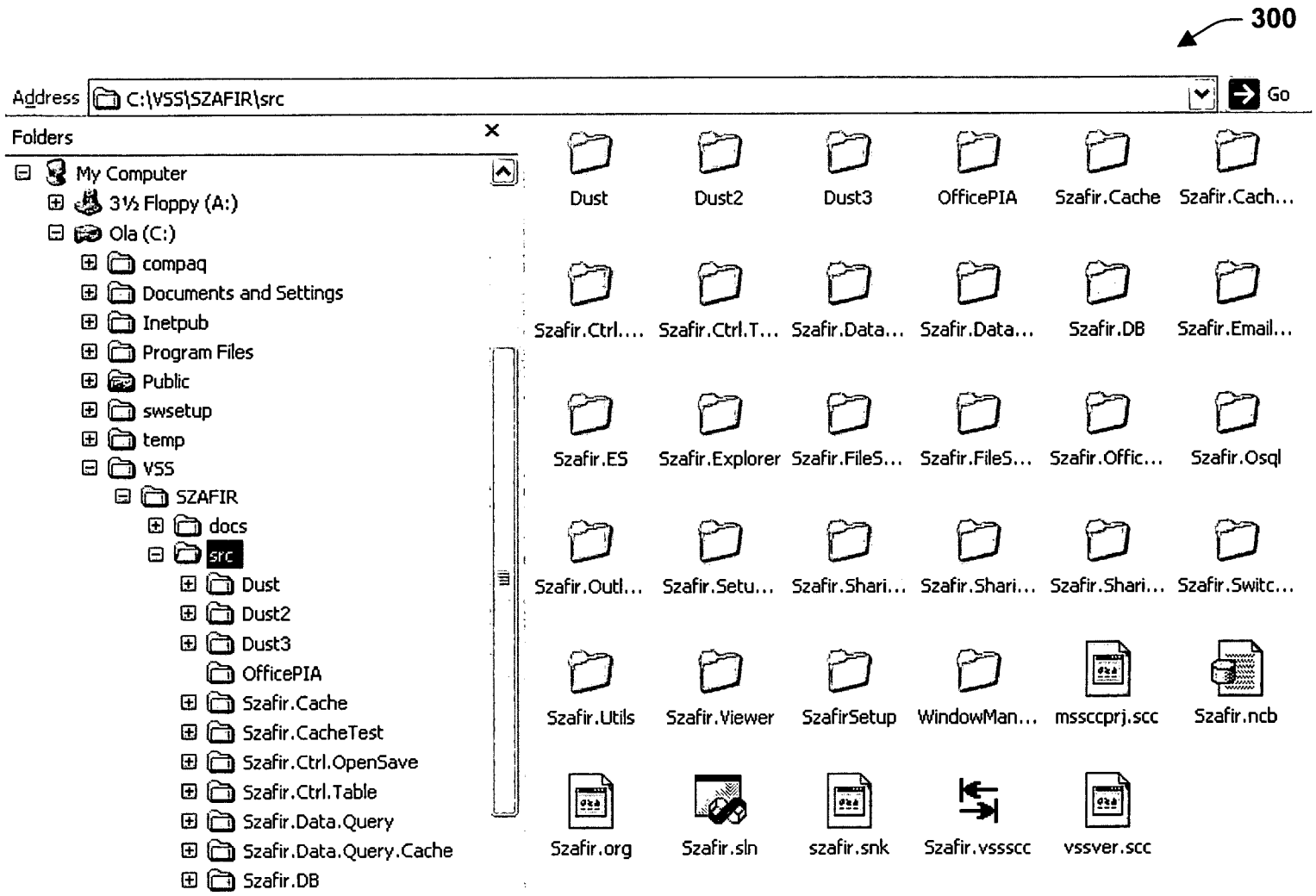
300
Address
C:\VSS\SZAFIR\src
Go
Folders
My Computer
3½ Floppy (A:)
Ola (C:)
compaq
Documents and Settings
Inetpub
Program Files
Public
swsetup
temp
VSS
SZAFIR
docs
src
Dust
Dust2
Dust3
OfficePIA
Szafir.Cache
Szafir.CacheTest
Szafir.Ctrl.OpenSave
Szafir.Ctrl.Table
Szafir.Data.Query
Szafir.Data.Query.Cache
Szafir.DB
Dust
Dust2
Dust3
OfficePIA
Szafir.Cache
Szafir.Cach...
Szafir.Ctrl....
Szafir.Ctrl.T...
Szafir.Data...
Szafir.Data...
Szafir.DB
Szafir.Email...
Szafir.ES
Szafir.Explorer
Szafir.FileS...
Szafir.FileS...
Szafir.Offic...
Szafir.Osql
Szafir.Outl...
Szafir.Setu...
Szafir.Shari...
Szafir.Shari...
Szafir.Shari...
Szafir.Switc...
Szafir.Utils
Szafir.Viewer
SzafirSetup
WindowMan...
mssccprj.scc
Szafir.ncb
Szafir.org
Szafir.sln
szafir.snk
Szafir.vssscc
vssver.scc

FIG. 3

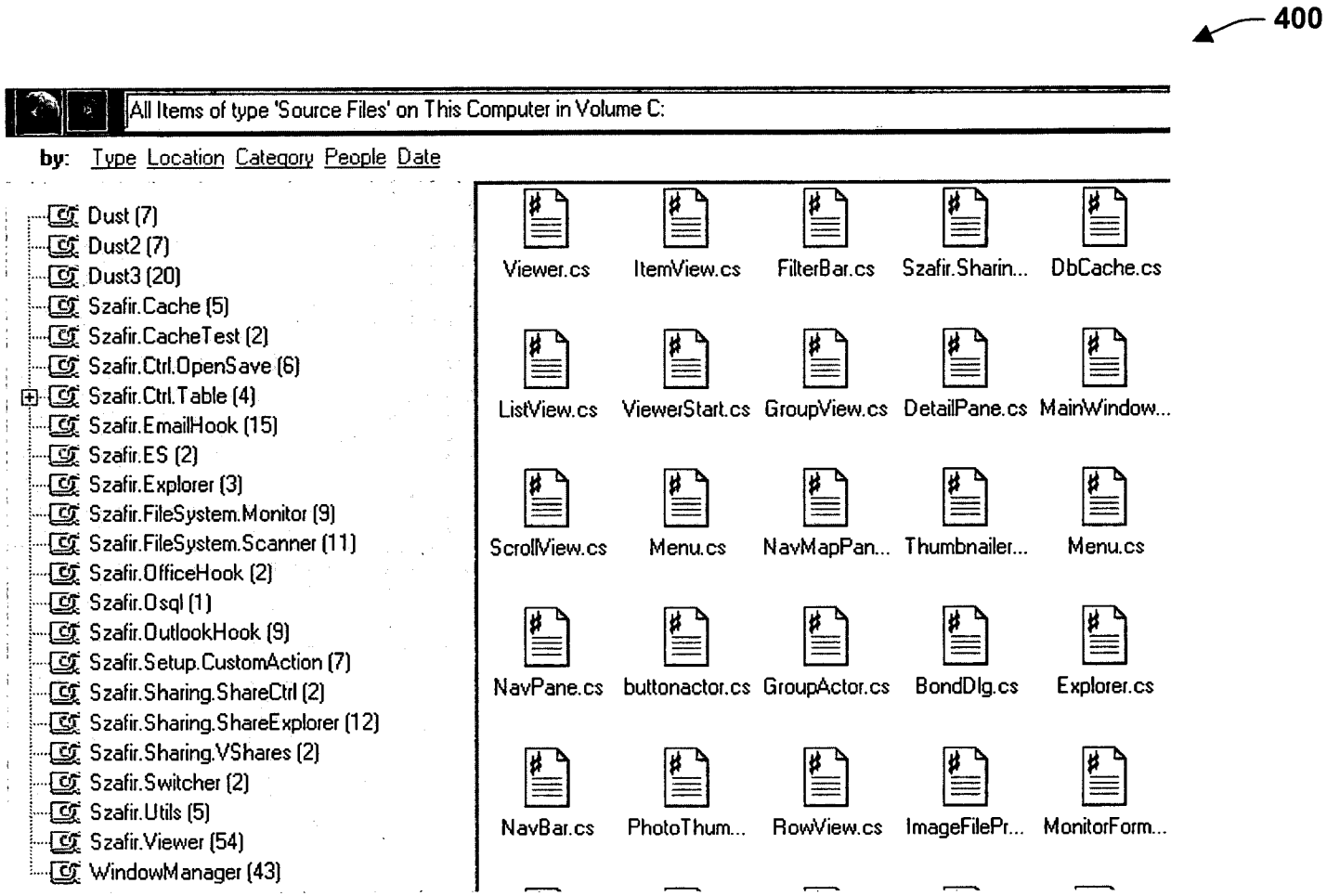
400
All Items of type 'Source Files' on This Computer in Volume C:
by: Type Location Category People Date
Dust (7)
Dust2 (7)
Dust3 (20)
Szafir.Cache (5)
Szafir.CacheTest (2)
Szafir.Ctrl.OpenSave (6)
Szafir.Ctrl.Table (4)
Szafir.EmailHook (15)
Szafir.ES (2)
Szafir.Explorer (3)
Szafir.FileSystem.Monitor (9)
Szafir.FileSystem.Scanner (11)
Szafir.OfficeHook (2)
Szafir.Osql (1)
Szafir.OutlookHook (9)
Szafir.Setup.CustomAction (7)
Szafir.Sharing.ShareCtrl (2)
Szafir.Sharing.ShareExplorer (12)
Szafir.Sharing.VShares (2)
Szafir.Switcher (2)
Szafir.Utils (5)
Szafir.Viewer (54)
WindowManager (43)
Viewer.cs
ItemView.cs
FilterBar.cs
Szafir.Sharin...
DbCache.cs
ListView.cs
ViewerStart.cs
GroupView.cs
DetailPane.cs
MainWindow...
ScrollView.cs
Menu.cs
NavMapPan...
Thumbnailer...
Menu.cs
NavPane.cs
buttonactor.cs
GroupActor.cs
BondDlg.cs
Explorer.cs
NavBar.cs
PhotoThum...
RowView.cs
ImageFilePr...
MonitorForm...

FIG. 4

500

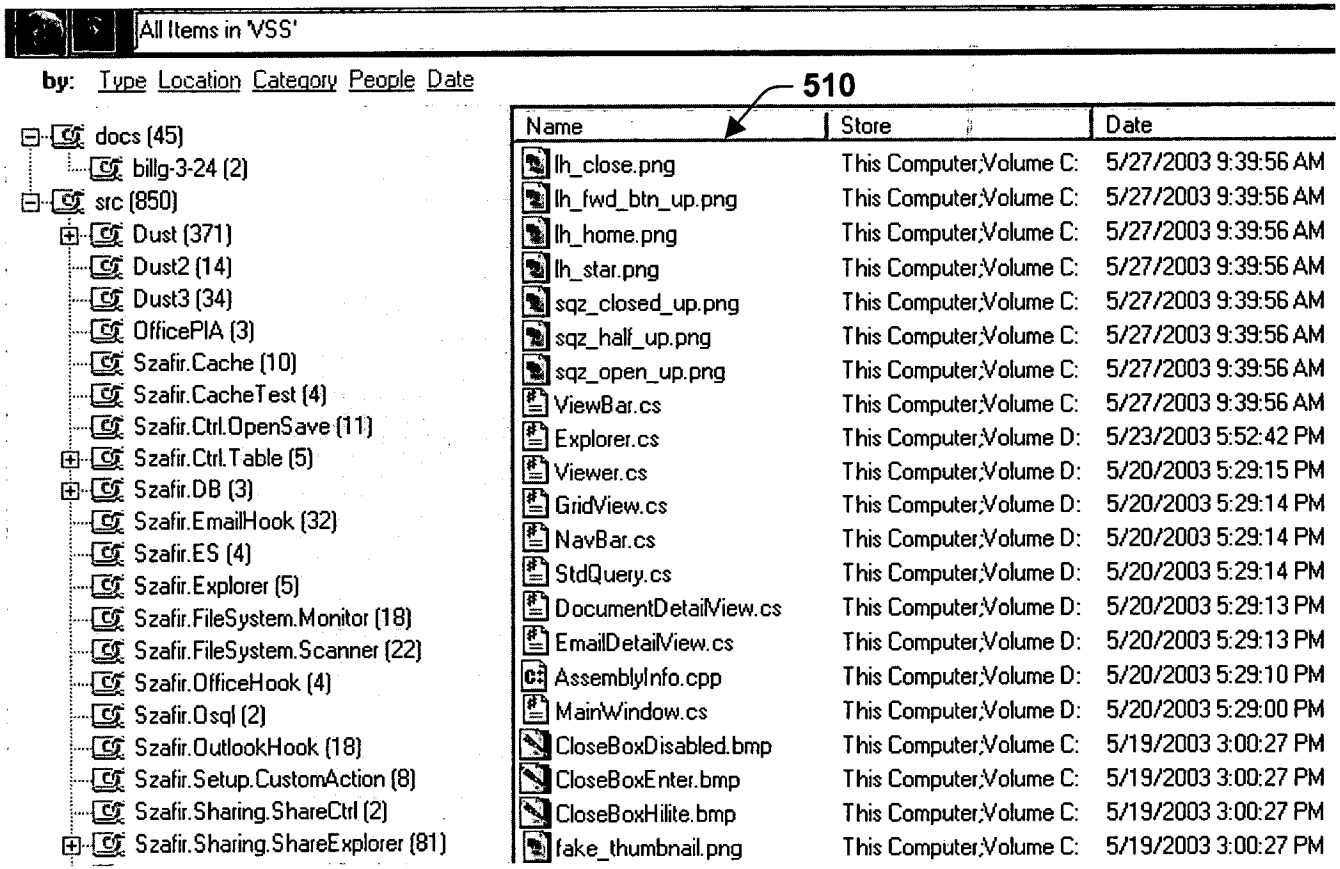
All Items in 'VSS'
by: Type Location Category People Date
510
docs (45)
billg-3-24 (2)
src (850)
Dust (371)
Dust2 (14)
Dust3 (34)
OfficePIA (3)
Szafir.Cache (10)
Szafir.CacheTest (4)
Szafir.Ctrl.OpenSave (11)
Szafir.Ctrl.Table (5)
Szafir.DB (3)
Szafir.EmailHook (32)
Szafir.ES (4)
Szafir.Explorer (5)
Szafir.FileSystem.Monitor (18)
Szafir.FileSystem.Scanner (22)
Szafir.OfficeHook (4)
Szafir.Osql (2)
Szafir.OutlookHook (18)
Szafir.Setup.CustomAction (8)
Szafir.Sharing.ShareCtrl (2)
Szafir.Sharing.ShareExplorer (81)
Name
Store
Date
lh_close.png This Computer;Volume C: 5/27/2003 9:39:56 AM
lh_fwd_btn_up.png This Computer;Volume C: 5/27/2003 9:39:56 AM
lh_home.png This Computer;Volume C: 5/27/2003 9:39:56 AM
lh_star.png This Computer;Volume C: 5/27/2003 9:39:56 AM
sqz_closed_up.png This Computer;Volume C: 5/27/2003 9:39:56 AM
sqz_half_up.png This Computer;Volume C: 5/27/2003 9:39:56 AM
sqz_open_up.png This Computer;Volume C: 5/27/2003 9:39:56 AM
ViewBar.cs This Computer;Volume C: 5/27/2003 9:39:56 AM
Explorer.cs This Computer;Volume D: 5/23/2003 5:52:42 PM
Viewer.cs This Computer;Volume D: 5/20/2003 5:29:15 PM
GridView.cs This Computer;Volume D: 5/20/2003 5:29:14 PM
NavBar.cs This Computer;Volume D: 5/20/2003 5:29:14 PM
StdQuery.cs This Computer;Volume D: 5/20/2003 5:29:14 PM
DocumentDetailView.cs This Computer;Volume D: 5/20/2003 5:29:13 PM
EmailDetailView.cs This Computer;Volume D: 5/20/2003 5:29:13 PM
AssemblyInfo.cpp This Computer;Volume D: 5/20/2003 5:29:10 PM
MainWindow.cs This Computer;Volume D: 5/20/2003 5:29:00 PM
CloseBoxDisabled.bmp This Computer;Volume C: 5/19/2003 3:00:27 PM
CloseBoxEnter.bmp This Computer;Volume C: 5/19/2003 3:00:27 PM
CloseBoxHilite.bmp This Computer;Volume C: 5/19/2003 3:00:27 PM
fake_thumbnail.png This Computer;Volume C: 5/19/2003 3:00:27 PM

FIG. 5

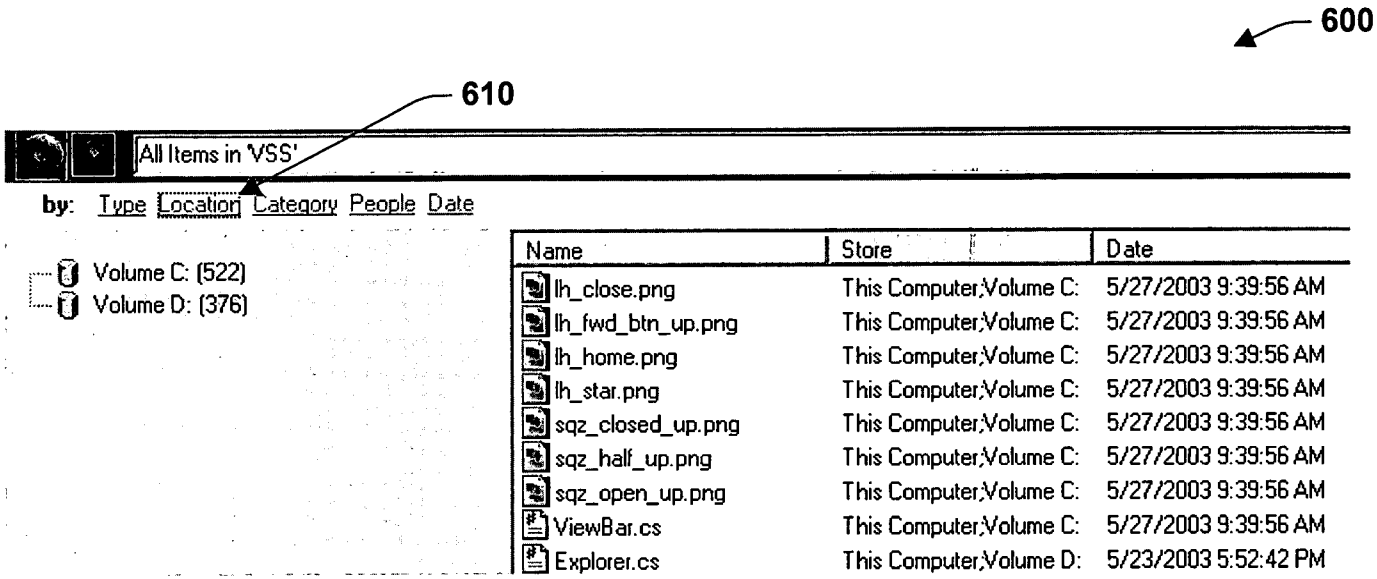
600
610
All Items in 'VSS'
by: Type Location Category People Date
Volume C: (522)
Volume D: (376)
Name
Store
Date
lh_close.png
This Computer;Volume C:
5/27/2003 9:39:56 AM
lh_fwd_btn_up.png
This Computer;Volume C:
5/27/2003 9:39:56 AM
lh_home.png
This Computer;Volume C:
5/27/2003 9:39:56 AM
lh_star.png
This Computer;Volume C:
5/27/2003 9:39:56 AM
sqz_closed_up.png
This Computer;Volume C:
5/27/2003 9:39:56 AM
sqz_half_up.png
This Computer;Volume C:
5/27/2003 9:39:56 AM
sqz_open_up.png
This Computer;Volume C:
5/27/2003 9:39:56 AM
ViewBar.cs
This Computer;Volume C:
5/27/2003 9:39:56 AM
Explorer.cs
This Computer;Volume D:
5/23/2003 5:52:42 PM

FIG. 6

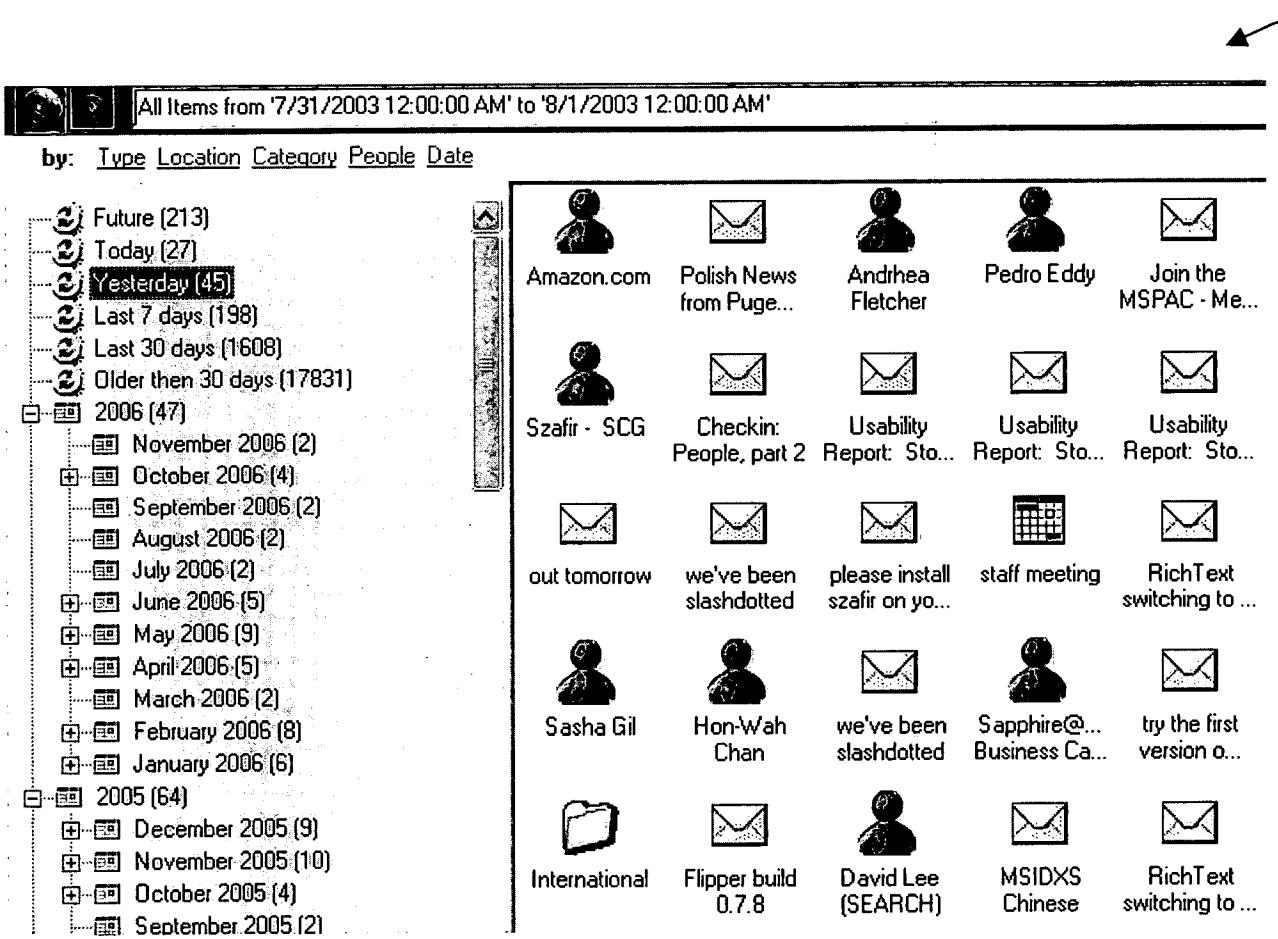
700
All Items from '7/31/2003 12:00:00 AM' to '8/1/2003 12:00:00 AM'
by: Type Location Category People Date
Future (213)
Today (27)
Yesterday (45)
Last 7 days (198)
Last 30 days (1608)
Older then 30 days (17831)
2006 (47)
November 2006 (2)
October 2006 (4)
September 2006 (2)
August 2006 (2)
July 2006 (2)
June 2006 (5)
May 2006 (9)
April 2006 (5)
March 2006 (2)
February 2006 (8)
January 2006 (6)
2005 (64)
December 2005 (9)
November 2005 (10)
October 2005 (4)
September 2005 (2)
Amazon.com
Polish News from Puge...
Andrhea Fletcher
Pedro Eddy
Join the MSPAC - Me...
Szafir - SCG
Checkin: People, part 2
Usability Report: Sto...
Usability Report: Sto...
Usability Report: Sto...
out tomorrow
we've been slashdotted
please install szafir on yo...
staff meeting
RichText switching to ...
Sasha Gil
Hon-Wah Chan
we've been slashdotted
Sapphire@... Business Ca...
try the first version o...
International
Flipper build 0.7.8
David Lee (SEARCH)
MSIDXS Chinese
RichText switching to ...

FIG. 7

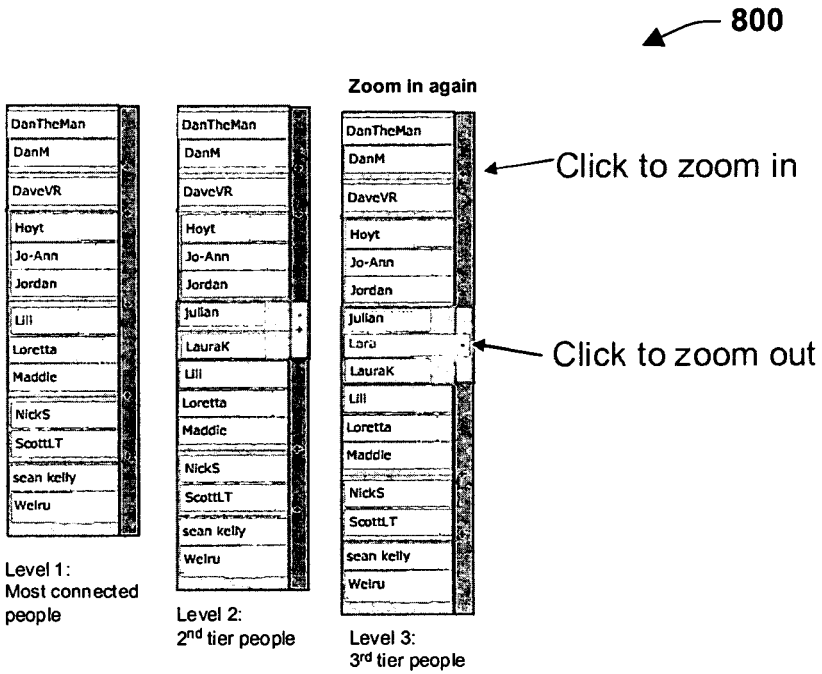
800
Zoom in again
DanTheMan
DanM
DaveVR
Hoyt
Jo-Ann
Jordan
Lili
Loretta
Maddie
NickS
ScottLT
sean kelly
Welru
Julian
LauraK
Click to zoom in
Click to zoom out
Level 1:
Most connected
people
Level 2:
2nd tier people
Level 3:
3rd tier people

FIG. 8

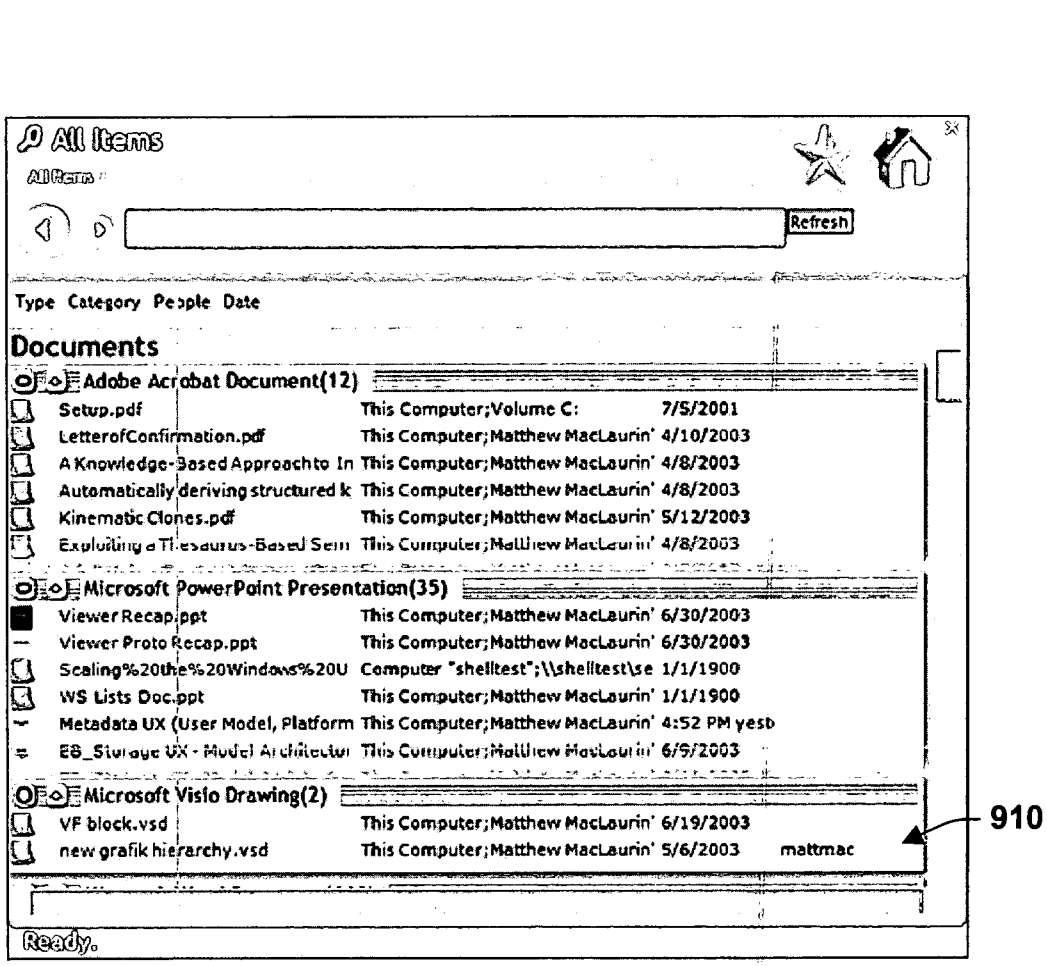
900
All Items
Refresh
Type Category People Date
Documents
Adobe Acrobat Document(12)
Setup.pdf This Computer;Volume C: 7/5/2001
LetterofConfirmation.pdf This Computer;Matthew MacLaurin' 4/10/2003
A Knowledge-Based Approachto In This Computer;Matthew MacLaurin' 4/8/2003
Automatically deriving structured k This Computer;Matthew MacLaurin' 4/8/2003
Kinematic Clones.pdf This Computer;Matthew MacLaurin' 5/12/2003
Microsoft PowerPoint Presentation(35)
Viewer Recap.ppt This Computer;Matthew MacLaurin' 6/30/2003
Viewer Proto Recap.ppt This Computer;Matthew MacLaurin' 6/30/2003
Scaling%20the%20Windows%20U Computer "shelltest";\\shelltest\se 1/1/1900
WS Lists Doc.ppt This Computer;Matthew MacLaurin' 1/1/1900
Metadata UX (User Model, Platform This Computer;Matthew MacLaurin' 4:52 PM yesb
Microsoft Visio Drawing(2)
VF block.vsd This Computer;Matthew MacLaurin' 6/19/2003
new grafik hierarchy.vsd This Computer;Matthew MacLaurin' 5/6/2003 mattmac
910
Ready.

FIG. 9

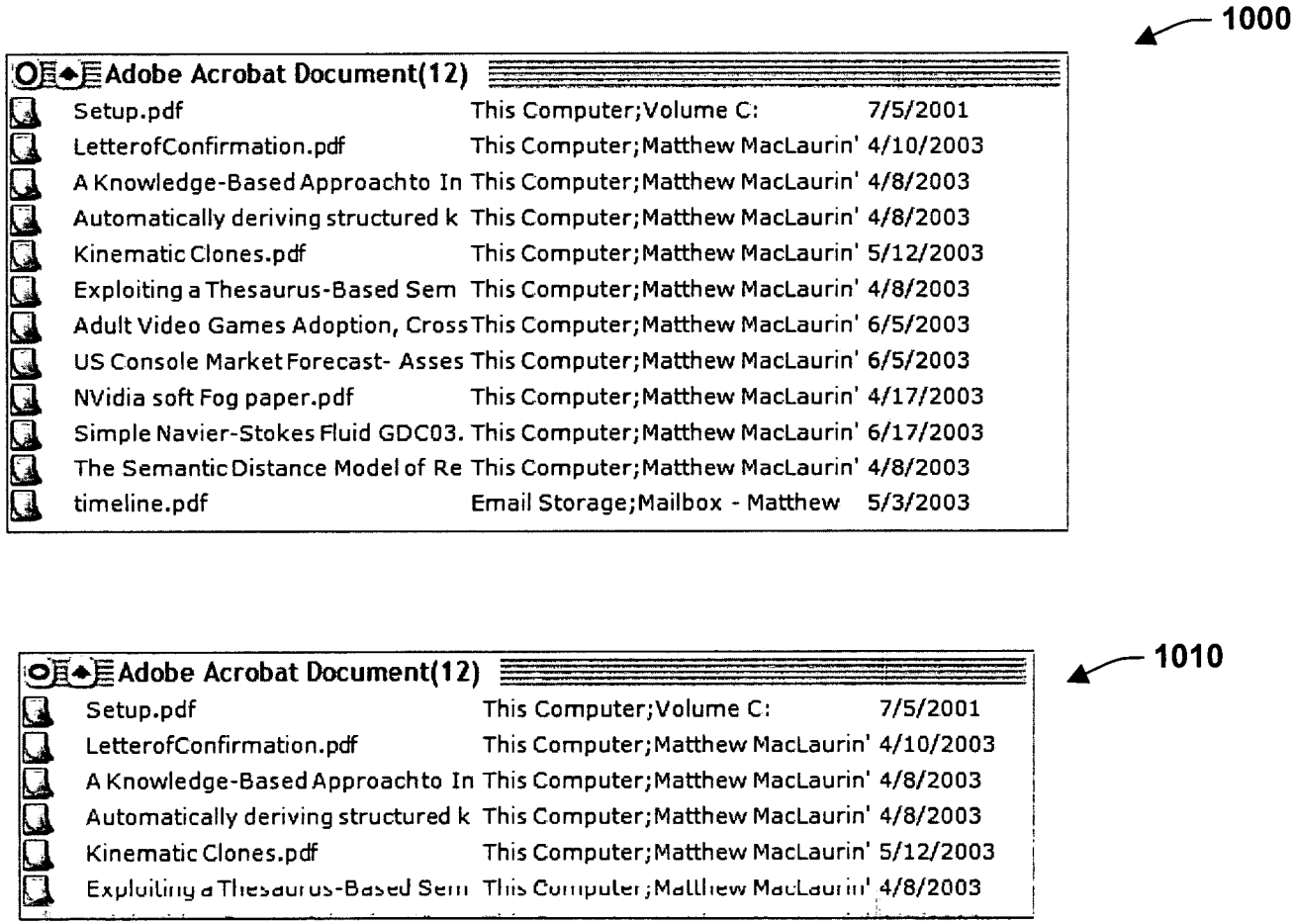
1000
Adobe Acrobat Document(12)
Setup.pdf This Computer;Volume C: 7/5/2001
LetterofConfirmation.pdf This Computer;Matthew MacLaurin' 4/10/2003
A Knowledge-Based Approachto In This Computer;Matthew MacLaurin' 4/8/2003
Automatically deriving structured k This Computer;Matthew MacLaurin' 4/8/2003
Kinematic Clones.pdf This Computer;Matthew MacLaurin' 5/12/2003
Exploiting a Thesaurus-Based Sem This Computer;Matthew MacLaurin' 4/8/2003
Adult Video Games Adoption, Cross This Computer;Matthew MacLaurin' 6/5/2003
US Console Market Forecast- Asses This Computer;Matthew MacLaurin' 6/5/2003
NVidia soft Fog paper.pdf This Computer;Matthew MacLaurin' 4/17/2003
Simple Navier-Stokes Fluid GDC03. This Computer;Matthew MacLaurin' 6/17/2003
The Semantic Distance Model of Re This Computer;Matthew MacLaurin' 4/8/2003
timeline.pdf Email Storage;Mailbox - Matthew 5/3/2003
1010
Adobe Acrobat Document(12)
Setup.pdf This Computer;Volume C: 7/5/2001
LetterofConfirmation.pdf This Computer;Matthew MacLaurin' 4/10/2003
A Knowledge-Based Approachto In This Computer;Matthew MacLaurin' 4/8/2003
Automatically deriving structured k This Computer;Matthew MacLaurin' 4/8/2003
Kinematic Clones.pdf This Computer;Matthew MacLaurin' 5/12/2003
Exploiting a Thesaurus-Based Sem This Computer;Matthew MacLaurin' 4/8/2003

FIG. 10

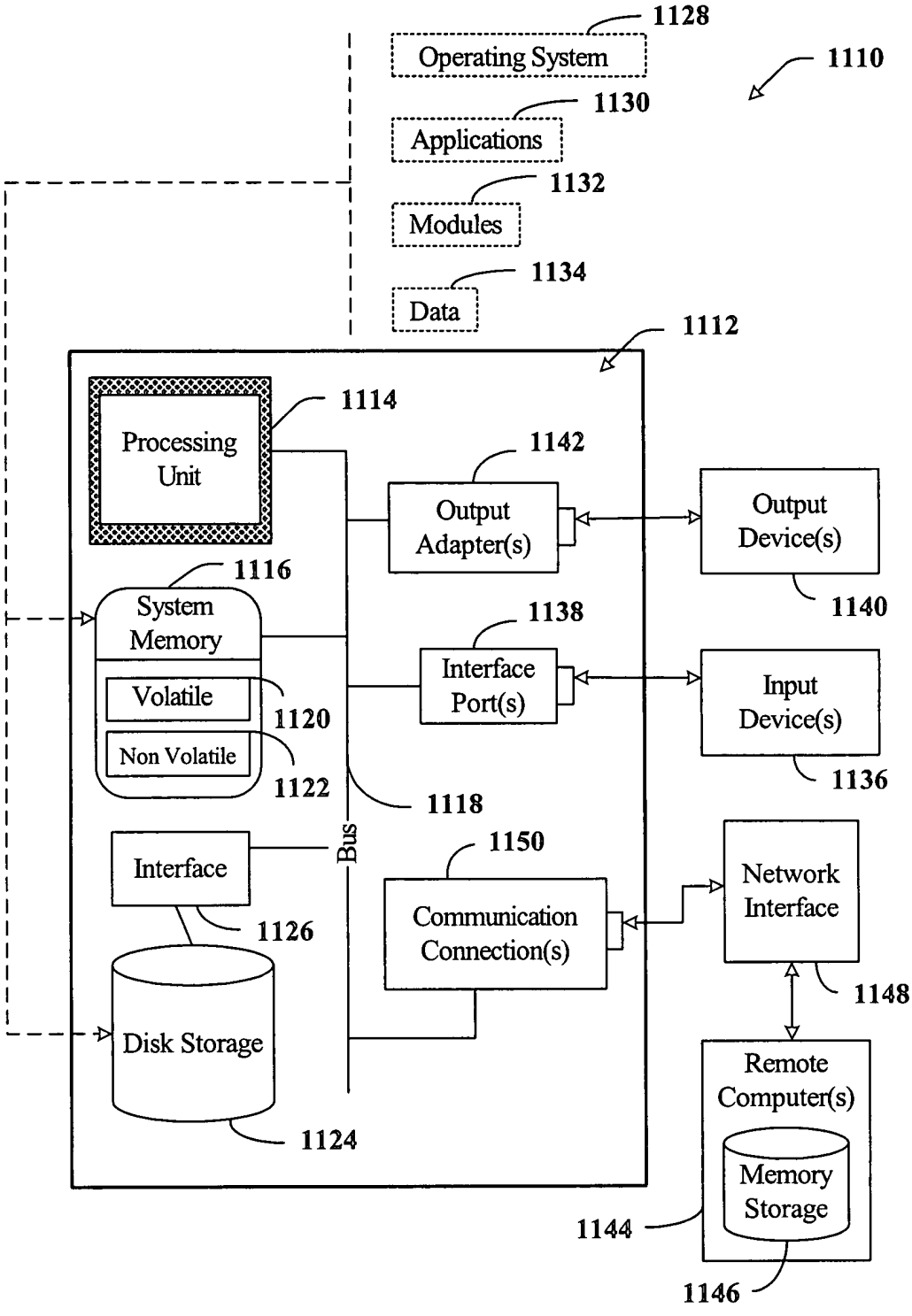
1128
Operating System
1110
1130
Applications
1132
Modules
1134
Data
1112
1114
Processing Unit
1142
Output Adapter(s)
Output Device(s)
1140
1116
System Memory
Volatile
1120
Non Volatile
1122
1138
Interface Port(s)
Input Device(s)
1136
1118
Bus
Interface
1126
1150
Communication Connection(s)
Network Interface
1148
Disk Storage
1124
Remote Computer(s)
Memory Storage
1144
1146

FIG. 11

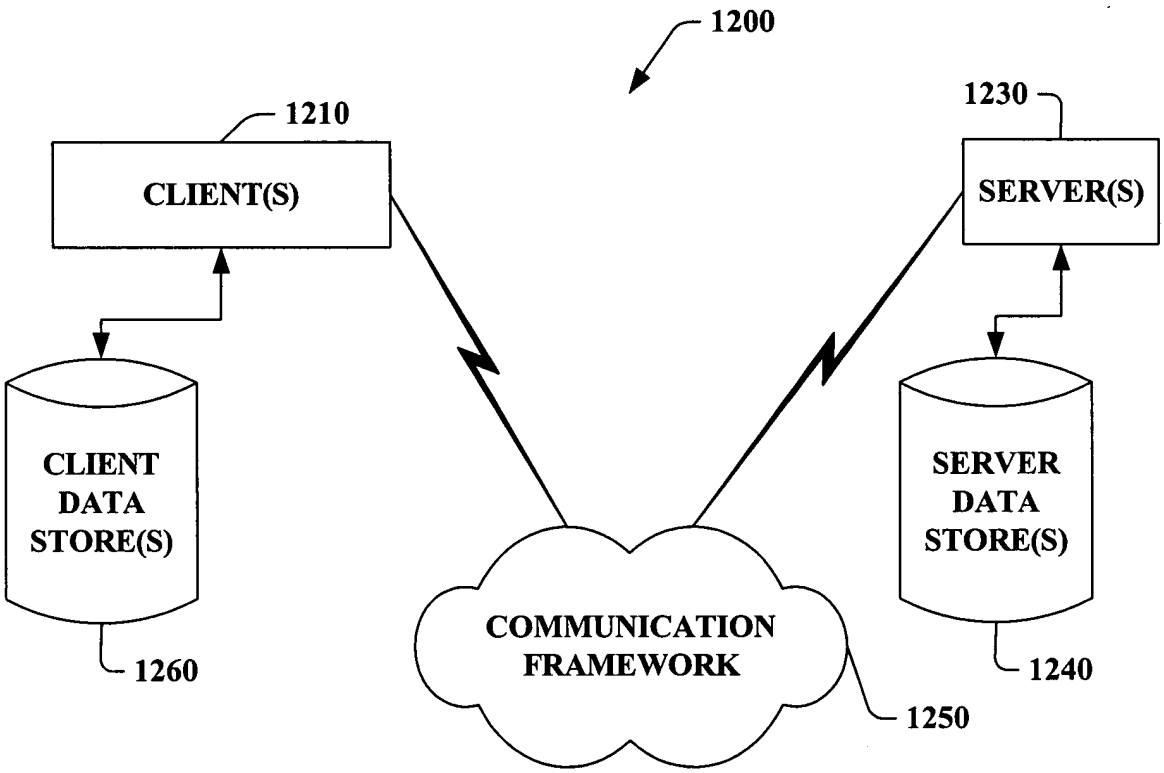
1200
1210
CLIENT(S)
1230
SERVER(S)
CLIENT DATA STORE(S)
SERVER DATA STORE(S)
COMMUNICATION FRAMEWORK
1260
1240
1250

FIG. 12